

MoDOT Technician Certification Program - Certification Levels

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Note: Attendance of these courses require completion of an Application sent to the MoDOT Materials Qualification Program, LSTC, or UMR.

Level 1 Technician

2 Days, First Time	\$400.00
1 Day, Re-Certification	\$200.00

Level 1 Bituminous

2 Days, First Time	\$400.00
1 Day, Re-Certification	\$200.00

MoDOT - TCP

		Aggregate Quality Control/Quality Assurance Training	
AASHTO	T 2	Sampling of Aggregates	
AASHTO	T 11	Materials Finer than No. 200 by Washing	
AASHTO	T 27	Sieve Analysis of Fine and Coarse Aggregates	
AASHTO	T 248	Reducing Samples of Aggregate to Testing Size	
AASHTO	T 255	Total Moisture Content of Aggregates by Drying	
MoDOT	TM 71	Deleterious Content of Aggregate	

AASHTO	T 40	Sampling Bituminous Materials
AASHTO	T 168	Sampling Bituminous Paving Mixtures
AASHTO	T 166	Bulk Specific Gravity of Compacted Bituminous Materials
MoDOT	TM 53	Determining the Moisture Content of a Bituminous Mixture

Plasticity Index (PI) \$200.00

MoDOT	TM-79	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test Particle Size Analysis of Soils(Aggregate specific)
AASHTO	T 89	Determining the Liquid Limit of Soils(Aggregate specific)
AASHTO	T 90	Determining the Plastic Limit And Plastic Index of Soils(Aggregate specific)

MoDOT	TM 54	Determining the Asphalt Content of a Bituminous Mixture
AASHTO	T 269	Percent Air Voids in Compacted Dense and Open Bituminous Paving Mixtures
MoDOT	TM 20	Measurement of Air, Surface or Bituminous Mixture Temperature

Level 2 Soils

No Prerequisite	
2 Days, First Time	\$400.00
1 Day, Re-Certification	\$200.00

Level 2 Aggregate

Requires Level 1 Technician	
2 Days, First Time	\$400.00
1 Day, Re-Certification	\$200.00

Level 2 Concrete

No Prerequisite	
2 Days, First Time	\$400.00
1 Day, Re-Certification	\$200.00

AASHTO	T 265	Laboratory Determination of Moisture Content of soils	
AASHTO	T 99	Moisture-Density Relations of Soils	AASHTO T 176 Plastic Fines in Graded Aggregates and Soils by Use of the Sand Equivalent Test
MoDOT	TM 40	A One-Point Moisture-Density Relations Test for Soils	AASHTO T 304 Un-compacted Void Content of Fine Aggregate
AASHTO	T 310	Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods(Shallow Depth)	ASTM D 4791 Flat Particles, Elongated Particles, or Flat and Elongated Particles in Coarse Aggregates
MoDOT	TM 35	Moisture Offset Factor for a Nuclear Gauge	ASTM D 5821 Standard Test Method for Determining the Percentage of Fractured Particles in Coarse Aggregates

AASHTO	T 22	Compressive Strength of Cylindrical Concrete Test Specimens
AASHTO	T 148	Measuring Length of Drilled Concrete Cores

AASHTO	T 231	Capping Cylindrical Concrete Specimens
AASHTO	T 23	Making and Curing of Concrete Test Specimens In the Field
AASHTO	T 119	Slump of Hydraulic Cement Concrete

Plasticity Index (PI) \$200.00

MoDOT	TM-79	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test Particle Size Analysis of Soils(Aggregate specific)
AASHTO	T 89	Determining the Liquid Limit of Soils(Aggregate specific)
AASHTO	T 90	Determining the Plastic Limit And Plastic Index of Soils(Aggregate specific)

AASHTO	T 141	Sampling of Freshly-Mixed Concrete
AASHTO	T 152	Air Content of Freshly-Mixed Concrete by the Pressure Method
ASTM	C 1064	Temperature of Freshly-Mixed Portland Cement Concrete
MoDOT	TM 20	Measurement of Air, Surface or Bituminous Mixture Temperature

8/31/05

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Level 2 Bituminous

Requires Level 1 Technician & Level 1 Bituminous

5 Days, First Time \$800.00

2 Days, Re-Certification \$450.00

AASHTO	T 209	HMA Maximum Specific Gravity
AASHTO	T 312	Preparing and Determining the Density of Hot-Mix Asphalt (HMA) Specimens by Means of the Superpave Gyratory Compactor
AASHTO	T 308	Binder Ignition Oven
AASHTO	R 30	Determination of Draindown Characteristics in Uncompacted Asphalt Mixtures
		Standard Practice for Mixture Conditioning of Hot Mix Asphalt(HMA)
		Volumetrics
		HMA QC Plan
		Pay Factor Theory, QC/QA
		Record Keeping, QC/QA
		Contract Administration, QC/QA
		Random Sampling
AASHTO	R 35	Practice for SuperPave Volumetric Design for Hot Mix Asphalt(HMA)
AASHTO	M 323	Standard Specification for SuperPave Volumetric Mix Design
		Plant Operation
		Intro to SuperPave
		Temperature-Viscosity Relations
		Field Verification
		Job Mix Formula Interpretation

Additional Certification classes

Aggregate Specific Gravity

Requires Level 1 Technician

1 Day \$200.00

AASHTO	T 84	Specific Gravity and Absorption of Fine Aggregate
AASHTO	T 85	Specific Gravity and Absorption of Coarse Aggregate
AASHTO	T 100	Specific Gravity of Hydrated Lime and Mineral Filler

Profilograph

No Prerequisite

1 Day \$200.00

MoDOT	TM 59	Determination of the Profilograph Index
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Low Slump

Requires Level 2 Concrete

1 Day \$200.00

MoDOT	TM 36	Nuclear Density for Concrete Overlays
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TSR

Requires Level 2 Bituminous

1 Day \$200.00

AASHTO	T 283	Resistance of Compacted Bituminous Mixtures to Moisture Induced Damage.
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Binder Ignition

1 Day Requires Level 1 Bituminous \$200.00

AASHTO	T 308	Determining the Asphalt Binder Content of Hot-Mix Asphalt (HMA) by Ignition Method
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Plasticity Index (PI)

Requires Level 1 Technician

1 Day \$200.00

MoDOT	TM-79	Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test Particle Size Analysis of Soils(Aggregate specific)
AASHTO	T 89	Determining the Liquid Limit of Soils(Aggregate specific)
AASHTO	T 90	Determining the Plastic Limit And Plastic Index of Soils(Aggregate specific)